

WHAT IS CLAIMED IS:

1. An apparatus for generating a hot-plug signal comprising:

a medium insertion/removal sensing unit which senses when a medium is inserted or removed; and

a hot-plug signal control unit which outputs a hot-plug signal when the medium insertion/removal sensing unit senses that the medium is inserted or removed.

2. An apparatus for generating a hot-plug signal comprising:

a medium insertion unit, which receives a medium and generates a sensor signal when the medium is inserted or removed;

a medium control unit which controls the received medium and generates a hot-plug signal; and

a switch which outputs the hot-plug signal in response to the sensor signal generated by the medium insertion unit.

3. The apparatus of claim 1, wherein the medium is a memory stick.

4. The apparatus of claim 2, wherein the medium is a memory stick.

5. The apparatus of claim 2, wherein the medium insertion unit transmits the sensor signal to the switch.

6. The apparatus of claim 1, wherein the hot-plug signal is a D+ or D- signal defined in a USB standard.

7. The apparatus of claim 2, wherein the hot-plug signal is a D+ or D- signal defined in a USB standard.

8. A method for generating a hot-plug signal comprising:

(a) sensing when a medium is inserted or removed; and

(b) controlling a hot-plug signal output so that the hot-plug signal is output when the medium is inserted or removed.

9. A method for generating a hot-plug signal comprising:

(a) generating a sensor signal when a medium is inserted or removed;

(b) controlling the medium and generating a hot-plug signal; and

(c) controlling the hot-plug signal to be output in response to the sensor signal.

10. The method of claim 8, wherein the medium is a memory stick.

11. The method of claim 9, wherein the medium is a memory stick.

12. The method of claim 9, wherein in step (a), the sensor signal generated upon the insertion/removal of the medium is transferred to a switch for outputting the hot-plug signal.

13. The method of claim 8, wherein the hot-plug signal is a D+ or D- signal defined in a USB standard.

14. The method of claim 9, wherein the hot-plug signal is a D+ or D- signal defined in a USB standard.

15. A computer readable medium storing a computer program for executing a hot-plug signal generation method, the hot-plug signal generation method comprising:

(a) sensing when a medium is inserted or removed; and

(b) controlling a hot-plug signal output so that the hot-plug signal is output when the medium is inserted or removed.

16. A computer readable medium storing a computer program for executing a hot-plug signal generation method, the hot-plug signal generation method comprising:

(a) generating a sensor signal by sensing whether a medium is inserted or removed;

(b) controlling the medium and generating the hot-plug signal; and

(c) controlling the hot-plug signal to be output in response to the sensor signal.